TEJUS

Test Report on Compressive Strength of Concrete Cubes

Project	Construction of CC Drains and Roads in Dasarahalli Village in Ward No.06
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri. P Hemanth (SOORYA CREATERS)
Grade of concrete:	M30
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959
Sample Location	cross rd 1 @ ch.33.10m

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	10-08-2020	08-09-2020	28 days	8.586	22500	678	30.13	
2	10-08-2020	08-09-2020	28 days	8.742	22500	684	30.40	30.49
3	10-08-2020	08-09-2020	28 days	8.566	22500	696	30.93	

Remarks : Satisfactory / Not Satisfactory

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3. Any Query regarding the report must be reported reported within 15days from the date of testing.
4. The material used in the site satisfied the standard of MORTH's 5th revision and hence can be used in the work.

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

Consultant's Representative

TEJUS CONSULTANTS
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Test Report on Compressive Strength of Concrete Cubes

TEJUS

Project	Construction of CC Drains and Roads in Dasarahalli Village in Ward No.06
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri. P Hemanth (SOORYA CREATERS)
Grade of concrete:	M30
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959
Sample Location	3rd main road @ ch.125.00m

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	10-08-2020	08-09-2020	28 days	8.486	22500	692	30.76	30.70
2	10-08-2020	08-09-2020	28 days	8.424	22500	694	30.84	
3	10-08-2020	08-09-2020	28 days	8.422	22500	686	30.49	

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TEJUS

Project	Construction of CC Drains and Roads in Basavanhalli Village in Ward No.06
Client	BRUHAT BANGALORE MAHANAGARA PALIKE
Consultant	M/s Tejus Consultants
Contractor	Sri. P Hemanth (SOORYA CREATERS)

Field Dry Density test by Sand Replacement Method (As per IS 2720 (Part 28))

Date of Testing	09-09-2020		
Layer no. or level	GSB layer		
Depth of hole	200mm		
Field density:	1	2	2
Chainage	15th Cross road,Hegdenagar 2nd main @130.00	15th Cross road,Hegdenagar 2nd main @130.00	15th Cross road,Hegdenagar 2nd main @130.00
Wt. of wet material from hole (Ww) gms.	5985	5981	5982
Wt. of sand+cylinder before pouring (w1) gms.	15000	15000	15000
Wt. of sand+cylinder after pouring (w2) gms.	10582	10576	10572
Wt. of sand in hole+ cone (w3) gms.	4418	4424	4428
Wt. of cone gms.	1080	1080	1080
Wt. of sand gms.	3338	3344	3348
Bulk density of sand (ys)gm/cc	1.32	1.32	1.32
Bulk density of material(i.e. wt. of the wet material) (yb)=(Ww/w4*(ys))gm/cc	2.37	2.36	2.36
Moisture meter reading(moisture content)	6.50	6.40	6.40
Result			
FDD(Wt.of the dry material)=(100yb/100+mc)gm/cc	2.22	2.22	2.22
MDD	2.25	2.25	2.25
OMC	6.30%	6.30%	6.30%
% compaction obtained	98.77	98.62	98.48
% compaction required	98%	98%	98%

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Yelahanka
BBMP

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GRADATION FOR GSB
(As per MORT&H 400-1,Grading-II)

Name of Work	:	Construction of CC Drains and Roads in Dasarahalli Village in Ward No.06.
Client	:	BRUHAT BANGALORE MAHANAGARA PALIKE
Consultant	:	M/s Tejus Consultants
Contractor	:	Sri. P Hemanth (SOORYA CREATORS)
Date of Testing	:	10-09-2021
Type of Mix	:	GSB
Sample I/D	:	GSB1

Sample Location:	15th Cross. Hegdenagar 2nd main	Date of Sampling:	09-09-2021	
		Date of testing:	10-09-2021	
Type of material & Purpose:	GSB	Oven Dry Wt.(gms):	10000.0	

IS Sieve size in mm	Weight retained	Cummulative weight retained (cm)	Cummulative % of retained	Cummulative % of passing	Specification limits
75	0	0	0.00	100.00	
53	0	0	0.00	100.00	100.00
26.5	2215	2215	22.15	77.85	70-100
9.5	2625	4840	48.40	51.60	30-80
4.75	898	5738	57.38	42.62	40-65
2.36	1214	6952	69.52	30.48	25-55
0.425	1956	8908	89.08	10.92	10-35
0.075	830	9738	97.38	2.62	<5
Pan	262.0				
Total	10000.0				

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Project Division No. 6
Yelahanka Zone, BBMP
Bangalore-64

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TEJUS

TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Construction of CC Drains and Roads in Dasarahalli Village in Ward No.06
Consultants	Tejus Consultants, Bangalore
Contractor	Sri. P Hemanth (SOORYA CREATERS)

SIEVE ANALYSIS

Total Weight:	3000 gms		
Type of Material	Fine aggregate (M sand)	Proposed Use	PCC
Sample Location	3rd main road.	Date of Sampling	09-09-2021
		Date of Testing	10-09-2021

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
10.00 mm	0	0	0	100.00	100
4.75 mm	215	215	7.17	92.83	90 - 100
2.36 mm	322	537	17.90	82.10	75 - 100
1.18 mm	432	969	32.30	67.70	55 - 90
0.600 mm	488	1457	48.57	51.43	35 -59
0.300 mm	765	2222	74.07	25.93	8-30
0.150 mm	630	2852	95.07	4.93	0 - 10
Pan	148	3000			-

Remarks : ✓ Satisfactory / Not Satisfactory

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TEST REPORT

Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Construction of CC Drains and Roads in Dasarahalli Village in Ward No.06
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri. P Hemanth (SOORYA CREATERS)

SPECIFIC GRAVITY AND WATER ABSORPTION

FINE AGGREGATE (IS-2386-PART-3)

Type of Material	Fine aggregate (M sand)	Proposed Use	PCC
Location/Source	3rd main road.	Date of Sampling	09-09-2021
Period of Soaking	24 hours	Date of Testing	10-09-2021

Sl. No.	Test Property		TRIAL - 1	TRIAL - 2	TRIAL - 3	
A	Weight of sturated surface dry sample gm.		658	642	667	
B	Weight of oven - dry sample gm.		655	626	660	
C	Weight of Pycnometer Filled with water gm		1275	1275	1275	
D	Weight of Pycnometer + sample + water gm		1692	1676	1694	
E	Bulk specific gravity	$\frac{B}{(C+A-D)}$	2.718	2.598	2.661	2.659
G	Absorption (%)	$\frac{(A-B)*100}{B}$	0.458	2.556	1.061	1.358

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TEJUS

TEST REPORT

Clients	Bruhath Bangalore Mahanagara Palike
Project	Construction of CC Drains and Roads in Dasarahalli Village in Ward No.06
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri. P Hemanth (SOORYA CREATERS)
Total Weight in gm:	3000

SIEVE ANALYSIS

Type of Material	40 mm down size	**Proposed Use**	PCC
Sample Location	3rd cross road.	**Date of Sampling**	09-09-2021
		Date of Testing	10-09-2021

IS Sieve Size	Weight Retained in gm	Cum. Weight Retained in gm	Cumulative Weight Retained in %	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA-2007) % of Passing For Graded Aggregate of Nominal Size
80.00mm	0	0	0.00	100.00	100
63.00mm	0	0	0.00	100.00	-
40.00mm	85	85	2.83	97.17	95-100
20.00mm	1442	1527	50.90	49.10	30-70
10.00mm	985	2512	83.73	16.27	10-35
4.75mm	460	2972	99.07	0.93	0-5
Pan	28	3000	100.00	0.00	

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TEJUS

TEST REPORT

Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Construction of CC Drains and Roads in Dasarahalli Village in Ward No.66
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri. P Hemanth (SOORYA CREATERS)

SPECIFIC GRAVITY AND WATER ABSORPTION

FINE AGGREGATE (IS-2386-PART-3)

Type of Material	Fine aggregate (M sand)	Proposed Use	PCC
Location/Source	3rd main road.	Date of Sampling	09-09-2021
Period of Soaking	24 hours	Date of Testing	10-09-2021

Sl. No.	Test Property	TRIAL - 1	TRIAL - 2	TRIAL - 3	
A	Weight of sturated surface dry sample gm.	658	642	667	
B	Weight of oven - dry sample gm.	655	626	660	
C	Weight of Pycnometer Filled with water gm	1275	1275	1275	
D	Weight of Pycnometer + sample + water gm	1692	1676	1694	
E	Bulk specific gravity $\frac{B}{(C+A-D)}$	2.718	2.598	2.661	2.659
G	Absorption (%) $\frac{(A-B)*100}{B}$	0.458	2.556	1.061	1.358

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TEJUS
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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Construction of CC Drains and Roads in Dasarahalli Village in Ward No.06
Consultants	Tejus Consultants, Bangalore
Contractor	Sri. P Hemanth (SOORYA CREATERS)

SIEVE ANALYSIS

Total Weight:	3000 gms		
Type of Material	Fine aggregate (M sand)	Proposed Use	PCC
Sample Location	3rd main road.	Date of Sampling	09-09-2021
		Date of Testing	10-09-2021

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
10.00 mm	0	0	0	100.00	100
4.75 mm	215	215	7.17	92.83	90 - 100
2.36 mm	322	537	17.90	82.10	75 - 100
1.18 mm	432	969	32.30	67.70	55 - 90
0.600 mm	488	1457	48.57	51.43	35 -59
0.300 mm	765	2222	74.07	25.93	8-30
0.150 mm	630	2852	95.07	4.93	0 - 10
Pan	148	3000			-

Remarks : Satisfactory / Not Satisfactory

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TEJUS
CONSULTANTS

Test Report on Cement

Project	Construction of CC Drains and Roads in Dasarahalli Village in Ward No.06
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri. P Hemanth (SOORYA CREATERS)
Sample ID	Cement (ACC Cement) OPC 43 Grade
Date of Sample Tested	11.09.2021
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	118 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	525 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	5mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	28.00%	25 % to 35

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TEJUS

Test Report on Cement

Project	Construction of CC Drains and Roads in Dasarahalli Village in Ward No.96
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri. P Hemanth (SOORYA CREATERS)
Sample ID	Cement (ACC Cement) OPC 43 Grade
Date of Sample Tested	11.09.2021
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	110 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	555 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	7 mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	27.00%	25 % to 35

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TEJUS
CONSULTANTS

TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Construction of CC Drains and Roads in Dasarahalli Village in Ward No.06
Consultants	Tejus Consultants, Bangalore
Contractor	Sri. P Hemanth (SOORYA CREATERS)

SIEVE ANALYSIS

Total Weight:	3000 gms		
Type of Material	Fine aggregate (M sand)	Proposed Use	PCC
Sample Location	5th cross road.	Date of Sampling	12-09-2021
		Date of Testing	13-09-2021

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
10.00 mm	0	0	0	100.00	100
4.75 mm	212	212	7.07	92.93	90 - 100
2.36 mm	325	537	17.90	82.10	75 - 100
1.18 mm	445	982	32.73	67.27	55 - 90
0.600 mm	485	1467	48.90	51.10	35 -59
0.300 mm	752	2219	73.97	26.03	8-30
0.150 mm	624	2843	94.77	5.23	0 - 10
Pan	157	3000			-

Remarks : Satisfactory / Not Satisfactory

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TEJUS
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TEST REPORT

Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Construction of CC Drains and Roads in Dasarahalli Village in Ward No.06
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri. P Hemanth (SOORYA CREATERS)

SPECIFIC GRAVITY AND WATER ABSORPTION

FINE AGGREGATE (IS-2386-PART-3)

Type of Material	Fine aggregate (M sand)	Proposed Use	PCC
Location/Source	5th cross road.	Date of Sampling	12-09-2021
Period of Soaking	24 hours	Date of Testing	13-09-2021

Sl. No.	Test Property		TRIAL - 1	TRIAL - 2	TRIAL - 3	
A	Weight of sturated surface dry sample gm.		658	635	676	
B	Weight of oven - dry sample gm.		650	628	666	
C	Weight of Pycnometer Filled with water gm		1275	1275	1275	
D	Weight of Pycnometer + sample + water gm		1690	1676	1698	
E	Bulk specific gravity	B / (C + A - D)	2.675	2.684	2.632	2.664
G	Absorption (%)	(A - B) *100 / B	1.231	1.115	1.502	1.282

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TEJUS
CONSULTANTS

TEST REPORT

Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Construction of CC Drains and Roads in Dasarahalli Village in Ward No.06
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri. P Hemanth (SOORYA CREATERS)

SPECIFIC GRAVITY AND WATER ABSORPTION

FINE AGGREGATE (IS-2386-PART-3)

Type of Material	Fine aggregate (M sand)	Proposed Use	PCC
Location/Source	2nd main road.	Date of Sampling	12-09-2021
Period of Soaking	24 hours	Date of Testing	13-09-2021

Sl. No.	Test Property		TRIAL - 1	TRIAL - 2	TRIAL - 3	
A	Weight of sturated surface dry sample gm.		643	653	666	
B	Weight of oven - dry sample gm.		635	644	656	
C	Weight of Pycnometer Filled with water gm		1275	1275	1275	
D	Weight of Pycnometer + sample + water gm		1680	1685	1694	
E	Bulk specific gravity	$\frac{B}{(C + A - D)}$	2.668	2.650	2.656	2.658
G	Absorption (%)	$\frac{(A - B) * 100}{B}$	1.260	1.398	1.524	1.394

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Construction of CC Drains and Roads in Dasarahalli Village in Ward No.06
Consultants	Tejus Consultants, Bangalore
Contractor	Sri. P Hemanth (SOORYA CREATERS)

SIEVE ANALYSIS

Total Weight:	3000 gms			
Type of Material	Fine aggregate (M sand)		Proposed Use	PCC
Sample Location	2nd main road.		Date of Sampling	12-09-2021
			Date of Testing	13-09-2021

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
10.00 mm	0	0	0	100.00	100
4.75 mm	226	226	7.53	92.47	90 - 100
2.36 mm	325	551	18.37	81.63	75 - 100
1.18 mm	412	963	32.10	67.90	55 - 90
0.600 mm	485	1448	48.27	51.73	35 -59
0.300 mm	742	2190	73.00	27.00	8-30
0.150 mm	636	2826	94.20	5.80	0 - 10
Pan	174	3000			-

Remarks : ✓ Satisfactory / Not Satisfactory

Note:

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4. The material used in the site satisfied the standard of MORTH's 5th revision and hence can be used in the work.

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

Authorised Signatory

TEJUS CONSULTANTS
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TEJUS
CONSULTANTS

TEST REPORT

Clients	Bruhath Bangalore Mahanagara Palike
Project	Construction of CC Drains and Roads in Dasarahalli Village in Ward No.06
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri. P Hemanth (SOORYA CREATERS)
Total Weight in gm:	3000

SIEVE ANALYSIS

Type of Material	40 mm down size	**Proposed Use**	PCC
Sample Location	5th cross road.	**Date of Sampling**	12-09-2021
		Date of Testing	13-09-2021

IS Sieve Size	Weight Retained in gm	Cum. Weight Retained in gm	Cumulative Weight Retained in %	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA-2007) % of Passing For Graded Aggregate of Nominal Size
80.00mm	0	0	0.00	100.00	100
63.00mm	0	0	0.00	100.00	-
40.00mm	82	82	2.73	97.27	95-100
20.00mm	1410	1492	49.73	50.27	30-70
10.00mm	982	2474	82.47	17.53	10-35
4.75mm	452	2926	97.53	2.47	0-5
Pan	74	3000	100.00	0.00	

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TEST REPORT

Clients	Bruhath Bangalore Mahanagara Palike
Project	Construction of CC Drains and Roads in Dasarahalli Village in Ward No.06
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri. P Hemanth (SOORYA CREATERS)
Total Weight in gm:	3000

SIEVE ANALYSIS

Type of Material	40 mm down size	**Proposed Use**	PCC
Sample Location	2nd cross road.	**Date of Sampling**	12-09-2021
		Date of Testing	13-09-2021

IS Sieve Size	Weight Retained in gm	Cum. Weight Retained in gm	Cumulative Weight Retained in %	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA-2007) % of Passing For Graded Aggregate of Nominal Size
80.00mm	0	0	0.00	100.00	100
63.00mm	0	0	0.00	100.00	-
40.00mm	88	88	2.93	97.07	95-100
20.00mm	1444	1532	51.07	48.93	30-70
10.00mm	972	2504	83.47	16.53	10-35
4.75mm	460	2964	98.80	1.20	0-5
Pan	36	3000	100.00	0.00	

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TEST REPORT

Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Construction of CC Drains and Roads in Dasarahalli Village in Ward No.06
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri. P Hemanth (SOORYA CREATERS)

SPECIFIC GRAVITY AND WATER ABSORPTION

FINE AGGREGATE (IS-2386-PART-3)

Type of Material	Fine aggregate (M sand)	Proposed Use	PCC
Location/Source	5th cross road.	Date of Sampling	12-09-2021
Period of Soaking	24 hours	Date of Testing	13-09-2021

Sl. No.	Test Property	TRIAL - 1	TRIAL - 2	TRIAL - 3	
A	Weight of sturated surface dry sample gm.	658	635	676	
B	Weight of oven - dry sample gm.	650	628	666	
C	Weight of Pycnometer Filled with water gm	1275	1275	1275	
D	Weight of Pycnometer + sample + water gm	1690	1676	1698	
E	Bulk specific gravity $\frac{B}{(C+A-D)}$	2.675	2.684	2.632	2.664
G	Absorption (%) $\frac{(A-B)*100}{B}$	1.231	1.115	1.502	1.282

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Project	Construction of CC Drains and Roads in Dasarahalli Village in Ward No.06
Consultants	Tejus Consultants, Bangalore
Contractor	Sri. P Hemanth (SOORYA CREATERS)

SIEVE ANALYSIS

Total Weight:	3000	gms			
Type of Material	Fine aggregate (M sand)		Proposed Use	PCC	
Sample Location	5th cross road.		Date of Sampling	12-09-2021	
			Date of Testing	13-09-2021	
IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
10.00 mm	0	0	0	100.00	100
4.75 mm	212	212	7.07	92.93	90 - 100
2.36 mm	325	537	17.90	82.10	75 - 100
1.18 mm	445	982	32.73	67.27	55 - 90
0.600 mm	485	1467	48.90	51.10	35 -59
0.300 mm	752	2219	73.97	26.03	8-30
0.150 mm	624	2843	94.77	5.23	0 - 10
Pan	157	3000			-

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Contractor	Sri. P Hemanth (SOORYA CREATERS)

SIEVE ANALYSIS

Total Weight:	3000 gms		
Type of Material	Fine aggregate (M sand)	Proposed Use	PCC
Sample Location	2nd main road.	Date of Sampling	12-09-2021
		Date of Testing	13-09-2021

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
10.00 mm	0	0	0	100.00	100
4.75 mm	226	226	7.53	92.47	90 - 100
2.36 mm	325	551	18.37	81.63	75 - 100
1.18 mm	412	963	32.10	67.90	55 - 90
600 mm	485	1448	48.27	51.73	35 -59
0.300 mm	742	2190	73.00	27.00	8-30
0.150 mm	636	2826	94.20	5.80	0 - 10
Pan	174	3000			-

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